



Section \$
Docket No.: R2180.0104/P0104
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Shigeru Ohuchida, et al.

Application No.: 09/800,586

Group Art Unit: 2651

Filed: March 7, 2001

Examiner: Not Yet Assigned

For: OPTICAL PICKUP APPARATUS,
OPTICAL DATA
RECORDING/REPRODUCING
APPARATUS, AND OPTICAL DATA
RECORDING/REPRODUCING
METHOD

Commissioner for Patents
Washington, DC 20231

FIRST PRELIMINARY AMENDMENT

Dear Sir:

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

In the Specification

Please rewrite the paragraph beginning on page 1, line 38, and ending on page 2, line 18 as follows:

In one such optical pickup apparatus, in Japanese Patent No. 2543227 for example, an optical disk apparatus is proposed which includes a laser light emitting device serving as a light source, and a first optical device which focuses a light emitted from the laser light emitting device onto a data recording surface serving as an optical disk. A second optical

device includes a first region for generating a first diffracting light of a transmitting type hologram, which generates a first diffracting light corresponding to a focusing error or a tracking error in an optical pickup with respect to the data recording surface of the optical disk on the basis of a light reflected from the data recording surface, and a second region for generating a second diffracting light of a reflection type hologram, the second region being coated on its surface by a film of a predetermined reflectance and which generates a second diffracting light corresponding to a monitor light by reflecting and diffracting a part of the light emitted from the laser light emitting device toward the data recording surface. A photodetector detects the first and the second diffracting lights generated by the second optical device, and a focusing controlling device focuses the light beam according to an output of the photodetector. A tracking controlling device tracks a predetermined position according to an output of the photodetector, and an output controlling device controls an output of the laser light emitting device to a predetermined value according to an output of the photodetector.

Please rewrite the paragraph beginning on page 8, line 17, and ending on page 8, line 21, as follows:

The photodetecting portion for signal light detection 7a and the photodetecting portion for monitor light detection 7b detect the incident light beams, and output signals corresponding to the amounts of the detected lights, receptively.

In the Claims

Please rewrite claim 9 as follows:

9. (Amended) The optical pickup apparatus of claim 3 or claim 7, wherein a section of the diffracting device at a side of the optical device forms a section of bilateral asymmetry.

REMARKS/ARGUMENTS

Claim 9 has been amended to correct a grammatical error. Additionally, two minor changes to the specification have been made: a prior art patent number, referenced in the specification, has been corrected, and the word "properties" was changed to "amounts" to clarify the sentence referring the amount of light. No new matter has been introduced. Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

Dated: June 5, 2001

Respectfully submitted,

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Version With Markings to Show Changes Made

Paragraph beginning on page 1, line 38, and ending on page 2, line 18:

In one such optical pickup apparatus, in Japanese Patent No. 25432[3]27 for example, an optical disk apparatus is proposed which includes a laser light emitting device serving as a light source, and a first optical device which focuses a light emitted from the laser light emitting device onto a data recording surface serving as an optical disk. A second optical device includes a first region for generating a first diffracting light of a transmitting type hologram, which generates a first diffracting light corresponding to a focusing error or a tracking error in an optical pickup with respect to the data recording surface of the optical disk on the basis of a light reflected from the data recording surface, and a second region for generating a second diffracting light of a reflection type hologram, the second region being coated on its surface by a film of a predetermined reflectance and which generates a second diffracting light corresponding to a monitor light by reflecting and diffracting a part of the light emitted from the laser light emitting device toward the data recording surface. A photodetector detects the first and the second diffracting lights generated by the second optical device, and a focusing controlling device focuses the light beam according to an output of the photodetector. A tracking controlling device tracks a predetermined position according to an output of the photodetector, and an output controlling device controls an output of the laser light emitting device to a predetermined value according to an output of the photodetector.

Paragraph beginning on page 8, line 17, and ending on page 8, line 21:

The photodetecting portion for signal light detection 7a and the photodetecting portion for monitor light detection 7b detect the incident light beams, and output signals corresponding to the [properties] amounts of the detected lights, receptively.

9. (Amended) The optical pickup apparatus of claim 3 or claim 7, wherein a section of the diffracting device at a side of the optical device forms a section of bilateral asymmetry.